

12.09.2002
BHM

Seminar on
Navigation channels - planning, establishment and maintenance
Trends and experiences

Time and place: **Tuesday 17 September 2002**

Site Visit: 11.30 – 13.00 hrs, Port of Esbjerg, at the corner of 'Østre Forhavnskaj' and 'Vestkraftkaj' in 'Østerhavn'

Lunch: 13.00 – 14.00 hrs, Musikhuset Esbjerg - hovedfoyer, Havnegade18

Seminar: 14.00 – 18.00 hrs, Musikhuset Esbjerg - foredragssalen

'Dinner': 18.00 – 18.30 hrs, Musikhuset Esbjerg – take away sandwich

Language: **English**

Site Visit

11.30 – 13.00 Visit onboard "MS "Grande Europa" - one the worlds largest and fastest ro/ro-container vessels. With a length of 181 m, width 32.25 m, BT 53,000 and its 11 decks it is considered as a 'design ship' for the Port of Esbjerg. It accomodates 750 containers and 4650 cars. The visit is guided by Grimaldi lines shipping agent in Esbjerg, Niels Winther Co.
Visit onboard dredger from Rohde Nielsen A/S with a short introduction to the dredging activities in the port.

The site visit may be subject to modifications as vessel calls and availability may change. Present alternatives are a visit onboard 'Dana Gloria', the new ro-pax from DFDS Tor Line or a cruise in the harbour and approach channel.

Seminar

14.00- 14.15 Welcome Address by Jens Kirkegaard, DHI Water & Environment

14.15- 14.50 From tidal trench to navigation channel for modern vessels. By Erik Brenneche, Port of Esbjerg.

The approach channel in historical context (development of depth, width and alignment), navigation marks and modifications in set-up, turning basin for coal

vessels (simulator), realignment of navigation channel (numerical modelling), nautical depth, maintenance dredging - focus areas and strategy.

- 14.50- 15.25 Deepening scenarios for the Drogden navigation channel, Denmark. By Jørgen Vesth-Hansen, Copenhagen Port.
Located at the entrance to the Baltic area Copenhagen has developed into an important cruise destination in Europe. However, limited navigable water depth combined with trends towards larger vessels and expected increase in sea transport have substantiated the need for a comprehensive feasibility study on possible deepening of the Drogden Channel. Conclusions from this study will be presented.
- 15.25- 15.45 Coffee break
- 15.45- 16.20 Risk analysis of navigation channels. By Andreas Friis-Hansen, Cowi.
Risk analysis of navigation channels is used to determine the risk level achieved with a given channel design. When comparing to target risk values, risk analysis becomes a decision support tool for the dimensions and/or alignment of the channel. An example from a recent risk analysis of navigational safety will be presented as well as the general framework and methods.
- 16.20- 16.55 Ship simulators as design tool for channel dimensioning. By Jakob Buus Petersen, DMI/FORCE, Copenhagen
Why using simulators and when to apply them? - examples and the use of results in the final design
- 16.55- 17.30 Establishment and Maintenance of Navigation Channels - A Contractors' Perspective. By Gareth Pollit, Area Manager - UK and Ireland, Rohde Nielsen A/S.
Why are Contractors interested in navigation channels? What is important for a contractor?, When to be involved? Natural and man-made channels, campaign-regular- or emergency maintenance dredging, equipment and resources, the process and types of contract, risks, satisfying the customer - understanding needs
- 17.30- 18.00 The consequence of water level rise on coastal morphology and navigation. By Anders Jensen, DHI Water & Environment, Hoersholm.
With estimates of future water level rises examples of types of coasts that potentially will face major changes are given and the types of impacts and consequences to coastal structures and navigation briefly described.

Best regards
Helge Gravesen
Chairman of DVS

It is the intention that a binder of abstracts of the presentations with hardcopies of overhead/slides will be distributed to the participants.

Participation fee: Dkr 600

Registration: snarest og senest tirsdag d. 10 september 2002 ved indsendelse af
nedenstående blanket til:

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c/o Kystdirektoratet
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Undertegnede tilmeldes hermed seminar ” Navigation channels; planning, establishment and
maintenance - Trends and experiences”, tirsdag 17 september 2002, Musikhuset Esbjerg.

Undertegnede deltager / deltager ikke i site visit (overstreg det ikke gældende)
deltager / deltager ikke i frokost (overstreg det ikke gældende)

Deltagernavn:.....

Firma:.....

Tlf.:.....

Mailadresse:.....